

REMARKS

In the Final Office Action¹, the Examiner rejected claims 1, 2, 4, and 5 under 35 U.S.C. § 102(e) as being anticipated by *Foxlin* (U.S. Patent Pub. No. 2003/0023192).

By this Amendment, Applicant proposes to amend claims 1 and 4. Claims 1, 2, 4, and 5 are pending. Of these claims, claims 1 and 4 are independent.

Applicant respectfully traverses the rejection of claims 1, 2, 4, and 5 under 35 U.S.C. § 102(e) as being anticipated by *Foxlin*. Independent claims 1 and 4 patentably distinguish over *Foxlin* at least for the reasons set forth below.

Amended independent claim 1 recites a head-tracking method for detecting three-dimensional movement of the head using three axes as points of reference, the method comprising: operating a reset switch on a head-tracking device, a position of the head when the reset switch is operated being set as a reference position, calculating a yaw angle from an integral value of an output of a gyro sensor, calculating both a pitch angle and a roll angle from an output of a two-axis tilt sensor, and detecting the movement of the head from the reference position based on the outputs of the gyro sensor and the two-axis tilt sensor.

Foxlin discloses an inertial angular orientation tracking apparatus including drift sensitive sensors, such as angular rate sensors, which produce a signal that is integrated to give a signal that represents angular position. (*Foxlin*, para. [0043]). The angular position signal may drift, due to integration of a bias or noise in the output of the rate sensors. *Id.* To correct this drift, compensating sensors, such as gravimetric tilt

¹ The Final Office Action contains characterizations of the claims and the related art with which Applicant does not necessarily agree. Unless expressly noted otherwise, Applicant declines to subscribe to any statement or characterization in the Final Office Action.

sensors, periodically measure the angular position, and this directly measured position signal is used to correct the drift of the integrated position signal. *Id.*

Foxlin, however, does not disclose a reset switch. Specifically, *Foxlin* fails to teach or suggest operating a reset switch on a head-tracking device, a position of the head when the reset switch is operated being set as a reference position, and detecting a movement of a head from the reference position based on outputs of a gyro sensor and a two-axis tilt sensor.

Accordingly, *Foxlin* fails to teach or suggest the claimed head-tracking method, comprising: “operating a reset switch on a head-tracking device, a position of the head when the reset switch is operated being set as a reference position; calculating a yaw angle from an integral value of an output of a gyro sensor . . . ; calculating both a pitch angle and a roll angle from an output of a two-axis tilt sensor . . . ; and detecting the movement of the head from the reference position based on the outputs of the gyro sensor and the two-axis tilt sensor,” as recited in claim 1.

Claim 4, while of different scope than claim 1, is allowable for at least the same reasons as claim 1.

Applicant respectfully requests that this Amendment under 37 C.F.R. § 1.116 be entered by the Examiner, placing claims 1, 2, 4, and 5 in condition for allowance. Applicant respectfully points out that the final action by the Examiner presented some new arguments as to the application of the art against Applicant’s invention. It is respectfully submitted that the entering of the Amendment would allow the Applicant to reply to the final rejections and place the application in condition for allowance.

Applicant further submits that the entry of the Amendment would place the application in better form for appeal, should the Examiner dispute the patentability of the pending claims. Applicant therefore requests the entry of this Amendment, the Examiner's reconsideration of the application, and the timely allowance of the pending claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

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